

CLOUD COVER ASSESSMENT: VNIR-SWIR

ABSTRACT OF THE DISCLOSURE

5 Methods, a computer-readable medium, and a system are provided for determining
whether a data point indicates a presence of a cloud using visible near-infrared data and short
wavelength infrared data. A first comparison of a cirrus-band reflectance of the data point
with a threshold cirrus-band reflectance value is made, classifying the data point as a cloud
point if the cirrus-band reflectance of the data point exceeds the threshold cirrus-band
10 reflectance value. When the comparing of the cirrus-band reflectance of the data point with
the threshold cirrus-band reflectance value does not classify the data point as a cloud point, a
further analysis is performed, including performing a second or more comparisons of
additional cloud indicators derived from at least one of the visible, near-infrared, and short
wavelength infrared data with related empirically-derived, landcover-dependent thresholds
15 for classifying the data point as a cloud point or a non-cloud point.

